

SEQUENCE LISTING

(1) GENERAL INFORMATION

(i) APPLICANT: Rakoczy et al.
(ii) TITLE OF THE INVENTION: HYALURONIC ACID AS DNA CARRIER FOR
GENE THERAPY AND VEGF ANTISENSE DNA
TO TREAT ABNORMAL RETINAL
VASCULARIZATION
(iii) NUMBER OF SEQUENCES: 11
(iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: ARTER & HADDEN
(B) STREET: 725 South Figueroa St, # 2400
(C) CITY: Los Angeles
(D) STATE: CA
(E) COUNTRY: USA
(F) ZIP: 90071
(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Diskette
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: DOS
(D) SOFTWARE: FastSEQ for Windows Version 2.0
(vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: USSN 09/065,082
(B) FILING DATE: 4-23-1999
(C) CLASSIFICATION:
(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: PCT AU96/00664
(B) FILING DATE: 10-22-1996
(viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Amzel, Viviana
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(C) REFERENCE/DOCKET NUMBER: EPI-109
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(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
AGGAGAGCAG AAGTCCCAT 19

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
CGTCAGAGAG CAACATCAC 19

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 77 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
CCAGACTCCA CAGTGCATAC GTGGGCTCCA ACAGGTCCTC TTCCCTCCCA 50
GTCAC TGACT AACCCCGGAA CCACACA 77

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

(ii) (A) LENGTH: 130 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: cDNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
 CCTGTCCCCG CCCCCCGGGC GGGCCGGGG CGGGGTCCC GCGGGGCGGA 50
 GCCATGCGCC CCCCCCTTT TTTTTTTAA AGTCGGCTGG TAGCGGGGAG 100
 GATCGCGGAG GCTTGGGGCA GCCGGGTAGC 130

(2) INFORMATION FOR SEQ ID NO:5:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: cDNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
 CTGACGGAGA GACAGACAGA CACCGCCCC AGCCCCAGCT ACCACCTCCT 50
 CCCCCGCGCG 60

(2) INFORMATION FOR SEQ ID NO:6:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 89 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: cDNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
 TGCGCAGACA GTGCTCCAGC CGCGCGCGCT CCCCAGGCC TGGCCCCGGG 50
 CTCGGGCCCG GGAGGAAGA 59

(2) INFORMATION FOR SEQ ID NO:7:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: _ base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: cDNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
 AAAGTGT TTT ATATACGGTA CTTATTTAAT ATCCCTTTT AATTAGAAAT 50
 TAAAACAGTT AATTTAATTA AAGATAGGGT TTTTTTCA 89

(2) INFORMATION FOR SEQ ID NO:8:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 62 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: cDNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
 TTTTTTAATT TTAATATTG TTATCATT TTTATTGGTG CTACTGTTTA 50
 TCCGTAATAA TT 62

(2) INFORMATION FOR SEQ ID NO:9:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 72 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: cDNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
 ATACATTTAT ATATATATAT ATTATATATA TATAAAATA AATATCTCTA 50
 TTTTATATAT ATAAATATA TA 72

(2) INFORMATION FOR SEQ ID NO:10:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 89 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
 AAAGTGTTTT ATATACGGTA CTTATTTAAT ATCCCTTTT AATTAGAAAT 50
 TAAACAGTT AATTTAATTA AAGATAGGGT TTTTTTCA 89

(2) INFORMATION FOR SEQ ID NO:11:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 61 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: cDNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
 TCTTAAAAA AAAAAAGCAT TTTGTATTAA AGAATTTAAT TCTGATCTCA 50
 AAGCTCCTCT T 61